Job title: Scientific software developer

Company description:
Nanoacademic Technologies Inc. is a Montréal-based scientific software company developing atomistic and quantum modeling tools since 2008. Nanoacademic's software is used by scientists and engineers to predict the properties of materials and devices from first principles and thus enable or accelerate R&D projects at academic, governmental, and industrial labs around the world. Nanoacademic is currently leveraging its expertise in scientific software development, materials science, and quantum physics to develop a new computer-aided design tool (QTCAD) for the emerging quantum hardware industry. For more information on the company and its products, please visit https://www.nanoacademic.com/.

Job description:
Nanoacademic is looking for a highly trained specialist to join our core R&D team responsible for the development of QTCAD. The person occupying this position will be in charge of:
- Coding new features of QTCAD according to the company's development and partnership roadmaps.
- Collaborating with the QTCAD team to develop physics-based models appropriate to quantum hardware.
- Participate in meetings with R&D partners, beta testers, and clients to present latest features and provide technical support.

Requirements and qualifications:
- Advanced degree (Master's degree or Ph. D.) in physics, mathematics or engineering.
- Strong background in theoretical physics and/or computational physics.
- Advanced knowledge of solid-state quantum hardware (spin qubits, superconducting qubits).
- A background in solid-state physics, semiconductor physics, and/or photonics.
- Experience in scientific computing.
- Programming skills in Python.
- Knowledge of other programming languages like MATLAB, Fortran, and C++ is a plus.
- Knowledge of version control tools (git) and best practices is also a plus.
- Good ability to communicate, interact and establish trustworthy relationships with our partners
- A creative, team-oriented, and agile mindset.

Interested candidates are invited to submit their CV to:

Félix Beaudoin, Ph. D.
Director of Quantum Technology
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